
Subject: Problems with of Malawi 2010 DHS in survey package (R)

Posted by [JulianneMeisner](#) on Thu, 05 Jul 2018 19:49:17 GMT

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Hi everyone,

I'm trying to perform small area estimation on household cattle ownership for the 2010 Malawi DHS, using the survey package in R.

I have created the dataset "data" by merging MWHR61FL.DTA and MWIR61FL.DTA on household ID, which I generated from "v001" and "v002" in the individual (MWIR61FL.DTA) dataset, and from "hv001" and "hv002" in the household (MWHR61FL.DTA) dataset.

My code is as follows:

```
dhs.des<-svydesign(id=data$v021, weights=data$v005/1000000, strata=data$v022, data=data)
cattle<-svyby(~hv246a, ~v001, dhs.des2, svymean)
```

This gives nonsensical standard errors (mean 4.3e-17), as does svytotal.

Before chasing down a problem with the survey package or my implementation of it, I wanted to make sure that I'm setting up the design correctly in the svydesign command.

Many thanks,
Julianne
